Vision-Sciences, Inc. June 9, 2003

510(k) Premarket Notification: Traditional Slide-OnTM EndoSheath® System for Sensory Testing

510(k) Summary

Trade Name:

Vision-Sciences Slide-On™ EndoSheath® System for Sensory

Testing

Sponsor:

Vision-Sciences, Inc. 9 Strathmore Road Natick, MA 01760 Registration #1223490

Device Common

Name:

Endoscope and Accessories - 77EOB

Classification:

According to Section 513 of the Federal Food, Drug, and

Cosmetic Act, the device classification is Class II.

Predicate Devices:

K990354 - Slide-On EndoSheath® for Flexible ENT Scopes

K012543 - EndoSheath® System for Flexible ENT Scopes

K024095 - Slide-On™ EndoSheath® System for Flexible ENT Scopes

Manufactured by: Vision-Sciences, Inc. 9 Strathmore Road Natick, MA 01760

K964815 - AP-4000 Air Pulse Sensory Stimulator

Manufactured by:

Pentax Precision Instrument Corp.

3117 Commerce Parkway Miramar, FL 33025

Product Description: The device system described in this 510(k) consists of a sterile, single use protective sheath for use with the VSI ENT-2000 scope.

Indications for Use: The EndoSheath® System provides a sterile, disposable protective covering for the scope to be used during flexible endoscopic examination of the upper airway, vocal cords and/or nasal passages. The System may also be used in conjunction with the Pentax AP-4000 Air Pulse Sensory Stimulator to elicit Laryngeal Closure Reflex (Swallow) and to measure the sensory discrimination threshold at which the reflex occurs in the area of the Upper Airway innervated by the Superior Laryngeal Nerve.

Safety and Performance: Substantial equivalence for the new device was based on design characteristics, comparison to legally marketed predicate devices, and performance testing. Performance testing included sheath burst/leak testing, sheath tensile/elongation testing, sheathed scope articulation testing and air pulse testing.

Conclusion: Based on the indications for use, technological characteristics, performance testing and comparison to predicate devices, the proposed VSI Slide-OnTM EndoSheath® System for Sensory Testing has been shown to be safe and effective for its intended use.

VSI Trans-Nasal Esophagoscope with EndoSheath® System Substantial Equivalence Comparison

Pentrelivie-Senerielvii Scoperioriise with MP-1000/Anr Phise Senson Schmibtor	N/A – No sheath	N/A – No sheath	N/A - No sheath	N/A – No sheath	1.2 mm	Unknown	N/A – No sheath	N/A – No sheath		N/A – No sheath	N/A – No sheath	N/A - No sheath	300 mm	3.4 mm	130°/130°	75°	Unknown
Gurrenth Mariketed/VSHEDNIE 2000/with EndoSheath© System (K990354: K012554: K024095)	Thermoplastic elastomer	Thermoplastic polymer	N/A – no luer connector	Thermoplastic polymer	N/A - no working channel	UV curable	Yes	Slides on and off (no	vacuum/pressure source required)	12"	.002"	Tyvek/Mylar pouch	300 mm	3.6 mm	135°/135° (sheathed scope)	75°	3 – 50 mm
Pruposed VSI Slide-On ^{FM} - Fruposed VSI Slide-On ^{FM} - Fr	Same as VSI predicate devices	N/A - no working channel	Same as VSI predicate devices	Yes	Slides on and off (no vacuum/pressure	source required)	12"	002"	Tyvek/Mylar pouch	300 mm	4.1 mm (w/sheath)	90°/90° (sheathed scope)	75°	3 – 50 mm			
Characteristic	Sheathmaterial	Window material	Filer connector material	Proximal connector	Arreliannelia	Annesmes	Місторія правнег сівіт	Sheathsmstallation	methodis	Sheadhlength	Minimum sheadniwall dinalanes	ShexifisPackagme	Scope working length (with sheath)	Scope insertior rube (01) storage and service of the service of th	Averectiation ((E) // Down)	AmpleoftView	Depair of Frield

Currently Marketed VS19ENTE 2000 with EndoSheath© System (18990354, 18012534, 18024095) (18990354, 18012534, 18024095)	To elicit Laryngeal Closure Reflex (Swallow)	and to measure the sensory discrimination		area of the Upper Airway innervated by the	Superior laryngeal Nerve. The structures		Airway innervated by the Superior Laryngeal	Nerve are: the Left and Right Anterior Wall	of the Pyriform Sinus and the Left and Right	Aryepiglottic Folds. The device is intended	to be used with a legally marketed endoscope	compatible with the AP-4000, introduced per	nasally in Adult and Pediatric patient	populations with suspected Dysphagia
Currendy Marketed WSFENTE 2000 With EndoSheath® System (4890354, R012534, R024095)	The EndoSheath® System	provides a sterile, disposable	protective covering for the scope	to be used during flexible	endoscopic examination of the	upper airway, vocal cords and/or	nasal passages.							
Proposed VSI Slide Onto BridoSheath® System for Sensory Testing (Guerent Submission)	erile,	disposable protective covering for the scope	to be used during flexible endoscopic	examination of the upper airway, vocal	cords and/or nasal passages. The System	may also be used in conjunction with the	Pentax AP-4000 Air Pulse Sensory	Stimulator to elicit Laryngeal Closure	Reflex (Swallow) and to measure the	sensory discrimination threshold at which	the reflex occurs in the area of the Upper	Airway innervated by the Superior	Laryngeal Nerve.)
Characteristic	Indications for Use													





JUL 2 2003

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Vision-Sciences, Inc. c/o Pamela Papineau Delphi Medical Device Consulting, Inc. 5 Whitcomb Ave. Ayer, MA 01432

Re: K031790

Trade/Device Name: Slide-OnTM EndoSheath System® for Sensory Testing

Regulation Number: 21 CFR 874.4760

Regulation Name: Nasopharyngoscope (flexible or rigid) and accessories

Regulatory Class: Class II

Product Code: EOB Dated: June 9, 2003 Received: June 10, 2003

Dear Ms. Papineau:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 - Pamela Papineau

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4613. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

A Ralpic Rosenthall

A. Ralph Rosenthal, M.D.

Director

Division of Ophthalmic and Ear,

Nose and Throat Devices

Office of Device Evaluation

Center for Devices and Radiological Health

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510(k) Number (if known): <u>£03/790</u>

Device Name:

Slide-On™ EndoSheath® System for Sensory Testing

Indications for Use:

The EndoSheath® System provides a sterile, disposable protective covering for the scope to be used during flexible endoscopic examination of the upper airway, vocal cords and/or nasal passages. The System may also be used in conjunction with the Pentax AP-4000 Air Pulse Sensory Stimulator to elicit Laryngeal Closure Reflex (Swallow) and to measure the sensory discrimination threshold at which the reflex occurs in the area of the Upper Airway innervated by the Superior Laryngeal Nerve.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

OR

Over-the -Counter Use

(Division Sign-Off)

Division of Ophthalmic Ear, Nose and Throat Devises